

Smarteq™ LP70x-Series Low-Profile Multiband Antenna

Cellular Antennas (5G, LTE, CBRS, 3G, 2G) - Low
Profile Whipless

710379, 710406, 710407



Description

Low-profile, multiband whipless antenna that delivers reliable LTE connectivity.

Technologies

- 2G / 3G / 4G LTE

Features

- Low profile, ergonomic style with sophisticated engineering
- Easy installations
- Combined 2G/3G/4G/LTE functionalities in one single housing
- Ground plane independent



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The Smarteq™ LP70x-Series is a low-profile multiband antenna that operates simultaneously in the 698-960 MHz and 1710-2700 MHz bands with omnidirectional performance. It is designed to be a surface mount that performs well on metallic or non-metallic surfaces. The low-profile housing gives a high degree of vandal resistance, making it perfect for M2M and IoT applications where reliable communications are required.

Features

- Radio system: 2G/3G/4G
- Frequency: 698-960/1710-2690MHz
- Gain: 1.5 / 2.5dBi
- Color: Black or Gray
- Can be mounted on metal and non conductive surfaces
- LP701: Screw mounted / IP65
- LP702: Hole mounted / IP65, when installed
- DC shorted

Applications

- Smart Metering
- Smart City
- EV-chargers
- Vending machines
- Parking meters

Certifications



SPECIFICATIONS

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Standard Configurations

Model	Cable	Cable Length	Connector	Housing Color
710379 (LP701)	RG316	1.5m	SMA-male	Grey
710406 (LP701)	RG316	1.5m	SMA-female	Grey
710407 (LP702)	RG316	1.5m	SMA-male	Black

Electrical Specifications – RF Antennas (All Models)

Frequency Ranges	VSWR		Max. 3D Gain		Efficiency		Nominal Impedance	Polarization	Radiation Pattern	Max Power*	DC Short
	In Free Space	On Metal Plane	In Free Space	On Metal Plane	In Free Space	On Metal Plane					
698 - 760 MHz	< 2.5:1	< 2.5:1	1.5 dBi	2.5 dBi	75%	65%	50Ω	Linear	Omni-directional	20 watts	Yes
790 - 960 MHz	< 2.2:1	< 2.2:1	2.2 dBi	5 dBi	80%	80%					
1710 - 2690 MHz	< 2.0:1	< 2.0:1	4.8 dBi	6 dBi	75%	70%					

Mechanical and Environmental Specifications (All Models)

Physical

Dimensions (L x W x H)	168 x 56 x 42 mm	
Weight	~135g	
Color	Grey, black	
Installation	LP701	2 screws/adhesive
	LP702	Center screw/adhesive. Material thickness ≤ 3.5mm, installation hole Ø 16-19mm
Operating / Storage Temperature	-40°C to +85°C	
UL Certified	Tested according to EN45545:2013	
IP Class	IP65	

* Antenna measurement performed with 0.5 meter RG316 cable.

CONTACT US

**For more information about
this product contact your
sales representative or visit
> pctel.com/antenna-products**

Solving Complex Wireless Challenges

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for decades, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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